VILLAGE OF BREWSTER
BOARD OF TRUSTEES
03 OCTOBER 2018
7:30 P.M.
REGULAR MEETING
MINUTES

The Board of Trustees of the Village of Brewster held a regular meeting at 7:30 PM on October 3, 2018 at Village Hall, 50 Main Street, Brewster, NY 10509.

Attendees:
Mayor:
Deputy Mayor and Trustee:
Trustees; Mary Bryde, Tom Boissonnault, George Gaspar
Village Engineer: Todd Atkinson
Village Counsel: Anthony Molé
Clerk & Treasurer: Peter Hansen
Deputy Clerk-Treasurer Michelle Chiudina

Absent:
James Schoenig
Christine Piccini

Pledge to flag.

Notation of Exits

Motions to open the regular meeting, Trustee Bryde 2nd all in favor 3 to 0.

Regular Meeting

1. DPW Report – DPW Superintendent Domenic Consentino delivered the DPW report. Superintendent Consentino says he will shut the water off at Wells Park and has contacted the plumber to winterize. Mr. Consentino brought two different sections of water pipe that had sprung leaks; one 2" galvanized section from Argonne Road that had been previously patched at one end, and one ¾"copper section from Eastview Avenue. Both have significant deterioration including multiple pin holes. Village Engineer Atkinson says it looks like it could be stray voltage that could be accelerating the degradation of the metal. A brief discussion of addressing the possibilities of the source of stray voltage, such as the use of water lines as grounds by homeowners, ensued and the potential for checking voltage on the next section found leaking, possibly checking voltage at different locations that are accessible, possibly installing isolators between our street mains and the homeowner supply line to prevent transient voltage from affecting our lines. No consensus action was taken. Trustee Bryde asks about the potential candidates for the DPW position. Mr. Consentino says he has four or five to call and possibly interview. Mr. Consentino says hydrant flushing was conducted today on schedule. Trustee Boissonnault motions to accept the DPW report, Trustee Bryde 2nd all in favor 3 to 0.
2. Engineer's Report – Village Engineer Todd Atkinson delivered the Engineer's report. Copy attached to these Minutes. Trustee Gaspar motions to accept the July & August Engineer's report, Trustee Boissonnault 2nd all in favor 3 to 0.
3. Financial Update - Treasurer Hansen says we are on track with budget and expenditures. We received the New York State Aid to Independent Municipalities (AIM) of $11,560 but there was no "per capita" check ($2,300) this year. The Comptroller's website had this to say: "As in several previous years, this year's Executive Budget proposed eliminating Village per Capita Aid ($1.8 million in SFY 2017-18); unlike previous years, the Enacted Budget accepted the elimination." Treasurer Hansen said with Peaceable Hill water district probably dropping off the system for the 2nd half of this fiscal year we could lose approximately $60,000 in cash income. This makes continued enforcement of on-time payments from the current users' imperative. Treasurer Hansen said he would also recommend we do something about Refuse payment enforcement so those unpaid balances are not left to go to tax relevy. Village Counsel Molé says he will look into Refuse payment enforcement options. Trustee Boissonnault motions to accept the financial report, Trustee Bryde 2nd all in favor 3 to 0.
4. Water Repayment Agreements
   4.1. Trustee Boissonnault motions to approve the water repayment agreements; account #172 and repayment agreement account #128, Trustee Bryde 2nd all in favor 3 to 0.
5. Minutes for approval;
   5.1. September 19, 2018 Regular Meeting Minutes – Trustee Bryde motions to approve the September 19, 2018 Minutes, Trustee Gaspar 2nd all in favor 3 to 0.

6. Vouchers Payable – Trustee Bryde reviewed the vouchers and found everything in order.

6.1.	A -	GENERAL FUND	$ 13,782.17
6.2.	C –	REFUSE & GARBAGE	702.32
6.3.	F -	WATER FUND	12,738.14
6.4.	G -	SEWER FUND	53,543.31
6.5.	T -	TRUST & AGENCY	7,517.62
Total Vouchers Payable			$88,283.56

Trustee Boissonnault motions to approve vouchers payable as written, Trustee Gaspar 2nd all in favor 3 to 0.

7. Other Business
   - 7.1. Trustee Bryde asks Mr. Consentino when the flower pots can be brought down. Mr. Consentino says whenever you want them down. Trustee Bryde said we might look at using the empty baskets for holiday decorations. Trustee Bryde said the Vietnam Memorial Traveling Wall came through the Village around 3:30 pm today headed for Putnam County Veterans' Park and there was a good turnout to watch the procession on Main Street. Trustee Bryde asks about the letter thanking the Town Highway Supervisor for blocking the streets with Town trucks at the Brewster Fall Festival. Clerk Hansen said it had not been addressed as yet but will be produced soon. Trustee Bryde asks about the Village Matters schedule. Clerk Hansen says he received a email from Paloma Domenico and the dates were not conducive to our requirements but he hasn't responded as yet. Trustee Bryde asks how the online billing payments going. Treasurer Hansen and Deputy Clerk-Treasurer Michelle Chiudina say that perhaps a dozen transactions have occurred so far.
   - 7.2. Trustee Boissonnault installed a new lock on the Wells Park kiosk and is leaving the keys with the Village Office. Trustee Boissonnault says we are officially closing Wells Park to the public at dusk on October 8, 2018 because the cold weather is approaching and water pipes could freeze so we have to close the bathrooms and winterize the plumbing.
8. New Business
   - 8.1. Trustee Bryde asks about new sexual harassment policy and training mandated by the State. Clerk Hansen says we will make sure the new policy is adopted as it applies to the Village and says our insurance company will provide training at no charge.
9. Public Comment
   - 9.1. Rick Stockburger thanks the Board for the written nomination in support of the award he received from Brewster Emergency Shelter Partnership for Public Service. Trustee Boissonnault says it was well deserved.
10. Trustee Boissonnault motions to go into executive session to discuss a contract issue with the possibility of action being taken after executive session, Trustee Bryde 2nd all in favor 3 to 0.
11. Trustee Boissonnault motions to come out of executive session and resume the regular meeting, Trustee Bryde 2nd all in favor 3 to 0.
12. Trustee Gaspar motions to authorize Trustee Boissonnault to sign a letter to the Town of Southeast regarding Peaceable Hill Water District contract termination, Trustee Bryde 2nd all in favor 3 to 0.
13. Trustee Boissonnault motions to adjourn, Trustee Gaspar 2nd all in favor 3 to 0.

1. GENERAL INFORMATION		
Report No: 8 of 2018	Date: 8/15/2018	Contract No:
Facility Name: **VOB / Wastewater Treatment Plant and Collection System**		
2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineers Contract and Scope of Work including:		
a. Activities completed this month (attach additional pages as needed)		
• The average daily flows at the plant in July were 121,000.		
• Scheduled Darlington to repair RBC #2 brackets.		
• Ordered SCADA computer and equipment.		
b. Status of activities in progress this month (attach additional pages as needed):		
• Coolant flush and replacement of block heater at Carmel Avenue Pump Station.		
• Coolant flush at North Main Street Pump Station.		
• Schedule jetting of problem areas with Electric Snake.		
• Replace Backwash Pump on Sand Filter #1.		
c. Activities scheduled (attach additional pages as needed):		
• Install SCADA equipment.		
• Repair/rebuild CIP System.		
• Repair/Rebuild Ground Hog Grinder at Carmel Avenue Pump Station		

1. GENERAL INFORMATION		
Report No: 6 of 2018	Date: 8/15/2018	Contract No:
Facility Name: **VOB / Tonetta Brook Marvin Avenue Headwall**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineers Contract and Scope of Work including:

a. Activities completed this month (attach additional pages as needed)

- Received Geotechnical Report from Skylands Engineering. (attached)

b. Status of activities in progress this month (attach additional pages as needed):

- Awaiting NYSDEC on Stream Disturbance Application.

c. Activities scheduled (attach additional pages as needed):

- Finalize design based on Geotechnical Report.

SKYLANDS TESTING, LLC
124 Milton Road, Sparta, NJ 07871
973-729-4824
973-729-5824 fax

Transmittal

To: J. Robert Folchetti & Associates, LLC
31 Sodom Road
Brewster, NY 10509

Date: August 7, 2018 Project No: 1036
Project: Tonetta Brook Marvin Ave. Headwall
Reference: Geotechnical Report
cc:

Attention: Mr. Todd Atkinson, P.E.

We Transmit:	the following:	for:	
☐ as per your request	☐ calculations	☒ your file/use	☐ as requested by
☐ under separate cover	☒ reports	☒ distribution	
☒ by mail	☐ samples	☐ your approval	☐ as approved by
☐ by messenger	☐ copies	☐ revision and submission	
☐ by pick up	☐ letters	☐ your review and comment	☐ as submitted for approval by
☐ by overnight carrier	☐ invoice		

Copies	Date	Number	Description
3	8-5-2018		Geotechnical Report

Comments:

RECEIVED
AUG 8 2018
J. ROBERT FOLCHETTI

Signed: _____
Eugene J. Schwarzrock, P.E.

If enclosures are not as noted, please notify us at once

Geotechnical Report

Village of Brewster
Tonetta Brook Marvin Avenue Headwall

Marvin Avenue at Railroad Avenue
Brewster, New York

August 3, 2018

Prepared for:

J. Robert Folchetti & Associates
31 Sodom Road
Brewster, NY 10509

Prepared by:

SKYLANDS ENGINEERING, LLC
124 Milton Road
Sparta, NJ 07871

Geotechnical Report

Village of Brewster
Tonetta Brook Marvin Avenue Headwall

Marvin Avenue at Railroad Avenue
Brewster, New York

August 3, 2018

Prepared for:

J. Robert Folchetti & Associates
31 Sodom Road
Brewster, NY 10509

Prepared by:

SKYLANDS ENGINEERING, LLC
124 Milton Road
Sparta, NJ 07871
Certificate of Authorization No 0013524

6-5-18

Eugene J. Schwarzbok, Professional Engineer Date
New York License No. 077007-1

TABLE OF CONTENTS

INTRODUCTION

This project involves the design and construction of a new headwall and wingwalls in front of the existing headwall and wingwalls at the Marvin Avenue embankment over Tonetta Brook, located just east of Railroad Avenue (Route 53), in the Village of Brewster, Putnam County, New York. Existing headwalls along the north and south side of Marvin Avenue contain this roadway as it passes over the brook. Three (3) triangularly-stacked, 36 in. diameter reinforced concrete pipes at the invert of the brook allow the upstream, open-channel flow to pass through the Marvin Avenue fill and continue into the downstream, open channel section. The upstream (north) headwall is leaking therefore a new headwall is proposed to be constructed a few feet in front of (upstream) the existing headwall, and the interstitial space filled with controlled low-strength material/flowable fill.

The existing headwall runs ±13 ft. long along Marvin Avenue, and has two (2) flared wingwalls which are each 8 ft. long. The top of the headwall stops a few inches above the roadway grade and steel guiderail is located immediately behind the headwall.

This report presents the findings of a subsurface investigation prepared specifically for this project, as well as recommendations for design and construction of the proposed improvements.

GEOLOGY

Based on our review of published geologic data for this area of Westchester County, including the *Surficial Geologic Map of New York - Lower Hudson Sheet*, 1989, by Cadwell, Connally, et. al., this site is expected to be underlain by glacial till consisting of a mixture of grain sizes ranging from clay and silt, to sand, cobbles and boulders. Underlying bedrock is expected to consist of gray hornblende-biotite-quartz-plagioclase layered gneiss with interlayers of marble and possibly granite, based on the *Bedrock Geology of Parts off Putnam and Westchester Counties, New York, and Fairfield County, Connecticut*, 1968, by Prucha, Scotford, and Sneider, and the *(Bedrock) Geologic Map of New York - Lower Hudson Sheet*, 1970, by Rickard, Isachsen, and Fisher.

SUBSURFACE INVESTIGATION

Soiltesting, Inc. of Oxford, Connecticut performed three (3) borings on July 11, 2018 to identify the subsurface conditions present beneath the proposed headwall. Boring B-1 was drilled ±20 ft. NNE of the end of the proposed east wingwall, boring B-3 was drilled ±10 ft. east of the end of the proposed east wingwall, and boring B-4 was drilled ±15 ft. west of the end of the proposed west wingwall. The borings were sampled at maximum 5 ft. intervals, and boring B-1 was terminated on auger refusal at a depth of 18 ft. Borings B-3 and B-4 were terminated at depths of 18 ft. and 20.5 ft., respectively, after the completion of a 5 ft. rock core in each boring.

All borings were drilled using an ATV-mounted drill rig and a hollow stem auger to advance and maintain the hole. Soil sampling was performed using a 2 in. O.D. split spoon sampler driven by a 140 lb. safety hammer with a 30 in. drop and the number of blows for each 6 in. increment was recorded, in accordance with procedures outlined in ASTM D1586, Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils. Bedrock was sampled using a double-tube core barrel in accordance with procedures outlined in ASTM D2113 - Standard Practice for Rock Core Drilling and Sampling.

Soil samples were classified by an experienced geologist in general accordance with D.M. Burmister's "Suggested Test Methods for Identification of Soils" (ASTM, 1958) and bedrock samples were classified according to their rock type, and measured percentage recovery and rock quality designation (RQD).

Groundwater was recorded in the field when it was first encountered in the borings.

A Boring Location Plan and typed boring logs are presented in the Appendix.

SUBSURFACE CONDITIONS

The subsurface conditions encountered beneath this site differ somewhat from the published geologic literature. All three (3) borings encountered brown, dark brown, and black, very loose to loose, granular fill to depths ranging from 8 ft. to possibly 11 ft., with this fill consisting generally of silty fine sand, silty medium to fine sand, cinders and ash, silt, brick fragments, and trace amounts of asphalt in the upper 2 ft. of boring B-4. The cinders and ash were encountered at a depth of 5 ft. in all three (3) borings. Beneath this fill a 3 ft. to 7 ft. thick layer light brown, gray-brown and dark brown, medium dense, silty coarse to fine sand with sporadic gravel was encountered to depths of ±10 ft. to 11 ft. Beneath this sand, suspected weathered bedrock and/or boulders were present until the top of bedrock was encountered at depths ranging from ±15 ft. to 18 ft. Bedrock appeared to be schist.

Standard penetration test N-values ranged from 2 blows per foot (bpf) to 6 bpf in the granular fill, from estimated 14 bpf to 39 bpf in the virgin sand layer, and >70 bpf in the weathered rock layer. Core samples of bedrock at borings B-3 and B-4 had recoveries of 63% and 95%, and RQDs of 20% and 60%, respectively.

Groundwater was encountered in all three (3) borings from depths ranging from 7.5 ft. to 14 ft. (El. ±341 to El. ±335.5), with the higher elevation being close to the existing water level in the brook.

DESIGN RECOMMENDATIONS

Based on the findings of this subsurface investigation program, it is recommended that the new headwall and wingwalls may be founded on conventional spread footings. The recommended frost depth for this area of New York is 42 in. and normally footings should be founded at or below this depth; however, weathered and/or fractured bedrock is expected above this depth and these materials are generally not frost-susceptible. Therefore footings may be designed using an allowable bearing capacity of 3 tsf on the weathered or fractured bedrock. A coefficient of base sliding of 0.45 is recommended.

Should weathered bedrock not be present at any area beneath the footing at the planned footing elevation, then the footing excavation should either be extended to the top of weathered/fractured bedrock, or 12 in. of clean ¾ in. crushed stone should be placed and compacted below that section of footing to provide uniform bearing.

Post construction settlement is expected to be negligible since vertical loads are minimal and footing design will be governed by sliding. Any settlement will be elastic (instantaneous), with no long term consolidation settlement occurring.

The wall should be designed to ultimately support the loading from the existing wall and Marvin Avenue roadway, since the existing wall will likely continue to deteriorate and need to be supported. The following embankment soil properties are recommended for design:

Moist unit weight of retained soil,	γ_t = 125 pcf
Angle of internal friction,	ϕ = 34°
Lateral earth pressure coefficients:	
Active,	K_a = 0.28
Passive,	K_p = 3.54
Coeff. of friction (sliding),	tan δ = 0.50 (CIP concrete on weathered bedrock)

There is no evidence of past slope instability and none is expected under static or seismic loading.

The soils at this site are non-liquefiable based on their suitably high relative density and shallow depth to bedrock.

CONSTRUCTION RECOMMENDATIONS

Prior to construction all topsoil should be stripped and stockpiled for reuse.

Footings shall not be constructed on frozen or wet subgrade materials. Any frozen or saturated subgrade soil should be removed and/or replaced with clean ¾ in. crushed stone.

The bottom of all footing excavations should be compacted using a minimum of four (4) passes with a Rammax, or similar, trench compactor, as required, and until no further settlement is visible prior to placing structural fill or constructing footings.

Cobbles and boulders are not expected to be encountered during footing excavation; however, any cobbles or boulders encountered during construction should be removed so that no part protrudes into the bottom or sides of foundation excavations.

If organic soils are encountered at the bottom of footing excavations, it should be removed from beneath the footing and replaced with compacted ¾ in. stone. Organic soils should not be used as structural backfill, but should be removed offsite.

If NYSDOT Standard Specifications are not utilized, structural fill below normal water elevation should consist of clean, ¾ in. crushed stone placed and compacted in the dry. Structural fill above water may consist of stone or well-graded, coarse to fine sand and/or gravel with a maximum 10% non-plastic fines (material passing a No. 200 sieve) and free of organics and other deleterious materials. Aggregate size should be limited to no bigger than 2 in. in the largest dimension. It is estimated that none of the in situ materials will be suitable for reuse as structural fill due to the silt content and presence of deleterious material. Representative samples of any proposed fill material should be tested for gradation and moisture-density relationship prior to use to confirm its suitability.

Structural fill material should be placed in maximum 10 in. loose lifts beneath the wall footings, and 12 in. elsewhere, and it should be compacted to 95% of its maximum dry density at optimum moisture content as determined by the Modified Proctor Density Test (ASTM D1557). These operations should be performed under full-time geotechnical inspection and testing by either the Sand Cone Method (ASTM

D1556), Nuclear Density Gauge (ASTM D2922 and D3012), or other moisture/density test methods. These density tests should be performed by an experienced geotechnical inspector at sufficient frequency and spacing to ensure proper compaction, with the following criteria suggested as guidelines:

Location	Frequency of Testing
Structural fill beneath and adjacent to structures	min. 2 tests per lift min. 3 tests per day
Utility trenches	1 test every 50-100 LF per lift min. 3 tests per day

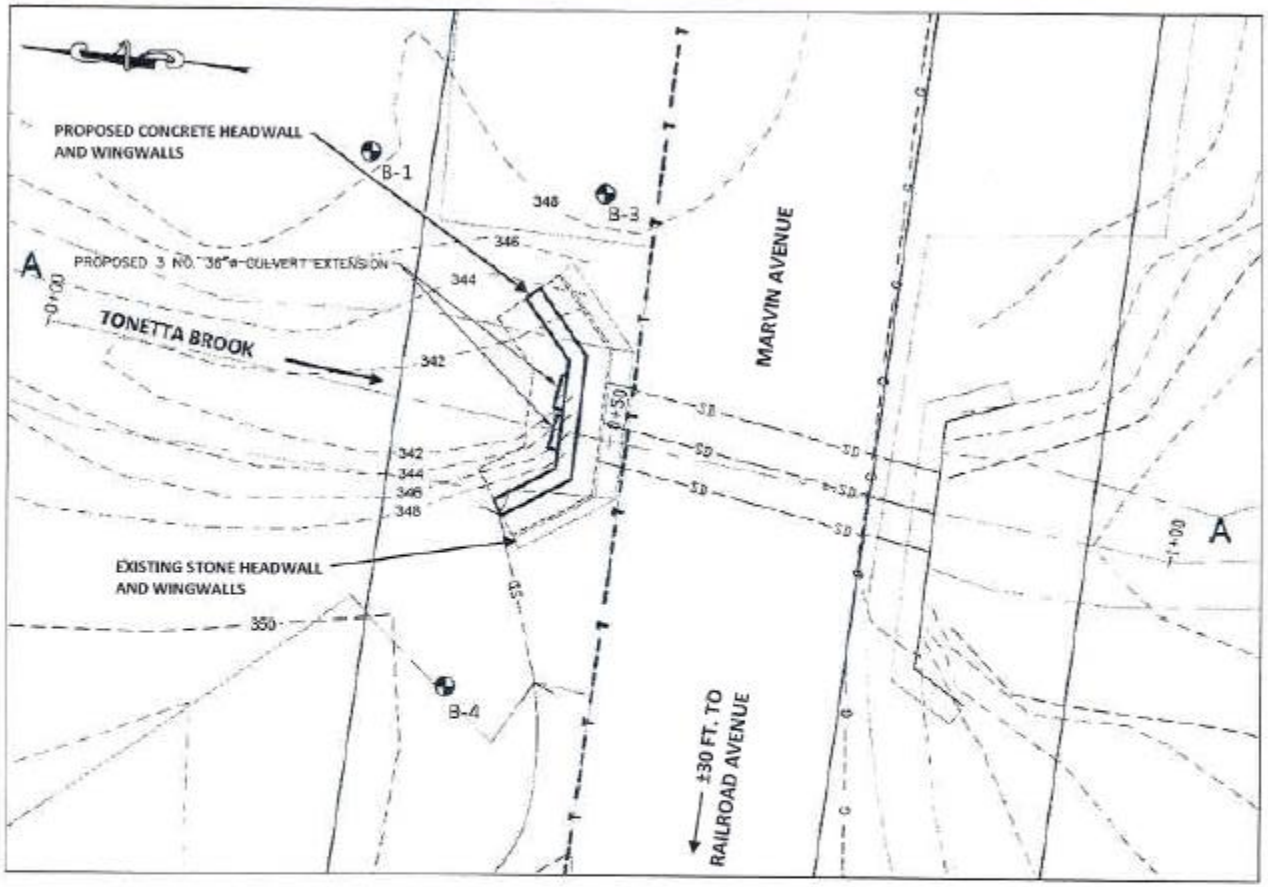
For excavations that extend deeper than 5 ft., sheeting, shoring, sloping, or benching of the excavation sidewalls is required per OSHA standards. Depending on location, all options may be suitable for this project, however cantilevered sheeting will likely not be suitable due to the presence of shallow bedrock. Based upon the material characteristics and estimated strength of the soils encountered during the subsurface exploration, the soil present on site may be assumed to be Type C and should be sloped at a 1.5H:1V (34°) per OSHA requirements. For the design of temporary sheeting or shoring, the following additional soil properties are recommended for the in situ soils not beneath Marvin Ave.

Moist unit weight of retained soil, γ_t = 115 pcf
Angle of internal friction, ϕ = 27°
Lateral earth pressure coefficients:
Active, K_a = 0.38
Passive, K_p = 2.66

All sheeting, shoring and bracing shall be designed by a professional engineer registered in the State of New York. Note that shorter, unbraced excavations will experience localized instability (i.e., sloughing) if left open for more than a day due to the open gradation of the material and expected rapid loss of moisture. To reduce the severity of this sloughing, such excavations should be covered with plastic sheeting for protection from rainfall and moisture changes. The layer of cinders and ash are not expected to have any stand-up time and will likely slough immediately.

It is recommended that all foundation and subgrade preparation procedures be inspected by a qualified geotechnical engineer experienced with this type of construction.

APPENDIX



LEGEND

B-1 BORING

SCALE

N.T.S.

NOTE:

1. BASE PLAN TAKEN FROM "PLANS AND PROFILE AND ELEVATIONS", DEC 2017, SUPPLIED BY J. ROBERT FOLCHETTI & ASSOCIATES, L.L.C.
2. BORING B-2 NOT DRILLED

BORING LOCATION PLAN

TONETTA BROOK MARVIN AVENUE HEADWALL

MARVIN AVENUE AT RAILROAD AVENUE
BREWSTER, NEW YORK

SKYLANDS ENGINEERING, LLC

124 MILTON ROAD
SPARTA, NJ 07871
CERTIFICATE OF AUTHORIZATION NO. 0013524

DATE: 8-3-2018

Boring Logs

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: J. Robert Folchetti & Associates	SHEET 1 OF 1 HOLE NO. B-1
	PROJECT NO. G127-1049-18	
	PROJECT NAME Marvin Avenue over Tonetta Brook at Railroad Avenue	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/jk	LOCATION Brewster, NY	
INSPECTOR		

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	NQ2
SIZE I.D.	3¾"	1 3/8"	2"
HAMMER WT.		140#	BIT
HAMMER FALL		30"	dia

OFFSET	
DATE START	7/11/18
DATE FINISH	7/11/18
SURFACE ELEV.	±348
GROUND WATER ELEV.	±340

GROUND WATER OBSERVATIONS
AT 6 FT AFTER 0 HOURS
AT __ FT AFTER __ HOURS

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 / 6 - 12 / 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	24"	10"	2'0"	1 / 2		dry	1'0"	Drk Brn SILT, lil root fibers, F sand
							3 / 5		loose		Brn Lt Brn VF-F SAND, sm silt
5		2	ss	24"	7"	7'0"	2 / 3		dry		Blk Drk Brn CINDERS & ASH, lil brick frags, FMC sand
							3 / 5		loose		
10		3	ss	19"	10"	11'7"	6 / 7		wet	11'0"	Drk Brn VF-FMC SAND & FC GRAVEL, sm silt
							71 / 100/1"		v dense		partially decomposed / fractured BEDROCK or BOULDERS, sm VF-F sand, silt
15		4	ss	24"	12"	17'0"	21 / 20		wet		partially decomposed BEDROCK / ROCK frags
							54 / 72		v dense	18'0"	AUGER REFUSAL
20											E.O.B. 18'0"
25											
30											
35											
40											

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO ____ FT. USED ____ CASING THEN ____ CASING TO ____ FT HOLE NO. B-1

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER

C = COARSE
M = MEDIUM
F = FINE

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50%

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: J. Robert Folchetti & Associates	SHEET 1 OF 1 HOLE NO. B-3
	PROJECT NO. G127-1049-18	
	PROJECT NAME Marvin Avenue over Tonetta Brook at Railroad Avenue	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/jk	LOCATION Brewster, NY	
INSPECTOR		

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	NQ2
SIZE I.D.	3¾"	1 3/8"	2"
HAMMER WT.		140#	BIT
HAMMER FALL		30"	dia

OFFSET	
DATE START	7/11/18
DATE FINISH	7/11/18
SURFACE ELEV.	±348.5
GROUND WATER ELEV.	±341

GROUND WATER OBSERVATIONS
AT 7'6" FT AFTER 0 HOURS
AT __ FT AFTER __ HOURS

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
											2" ASPHALT
		1	ss	24"	10"	2'6"	2 2		moist/v-moist		Dk Brn Blk VF-F SAND, sm silt, lit F gravel
							2 2		v loose		
5											
		2	ss	24"	12"	7'0"	1 1		moist/V moist		CINDERS / ASH & Drk Brn Brn SILT & VF SAND, sm
							1 2		v/loose		Brn Lt Gry FMC sand (fill)
										8'10"	
10										10'6"	Lt Brn Lt Gry SILT & VF-F SAND
		3	ss	24"	14"	12'0"	3 3		wet	11'0"	Drk Brn VF-FM SAND, sm silt
							14 13		compact	11'6"	Brn Lt brn Gry VF-FMC SAND, lit F gravel
										13'0"	fractured ROCK or BOULDERS AUGER REFUSAL
		1	p	60"	36"	18'0"	RQD = 20%	2.5			BEDROCK (Schist)
15							Rec. = 63%	2			
								2			
								2.25			
								2.5		18'0"	
											E.O.B. 18'0"
20											
25											
30											
35											
40											

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO ____ FT. USED ____ CASING THEN ____ CASING TO ____ FT. HOLE NO. B-3

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

SOILTESTING, INC.	CLIENT: J. Robert Folchetti & Associates	SHEET 1 OF 1
90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	PROJECT NO. G127-1049-18 PROJECT NAME Marvin Avenue over Tonetta Brook at Railroad Avenue LOCATION Brewster, NY	HOLE NO. B-4 BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/jk INSPECTOR		

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	NQ2
SIZE I.D.	3¾"	1 3/8"	2"
HAMMER WT.		140#	BIT
HAMMER FALL		30"	dia

OFFSET	
DATE START	7/11/18
DATE FINISH	7/11/18
SURFACE ELEV.	±349.5
GROUND WATER ELEV.	±335.5

GROUND WATER OBSERVATIONS
AT 14 FT AFTER 0 HOURS
AT __ FT AFTER __ HOURS

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 / 6 - 12 / 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
0		1	ss	24"	8"	2'0"	2 / 3 2 / 2		moist loose		4" ASPHALT Brn Drk Brn Blk VF-FM SAND, sm slt, FC gravel, asphalt frags
5		2	ss	24"	9"	7'0"	2 / 1 1 / 2		moist v loose		Blk CINDERS & ASH, sm Brn Drk Brn VF-FM sand, lit FC gravel, slt, cobbles (fill)
										9'0"	
10		3	ss	24"	14"	12'0"	10 / 17 22 / 34		moist dense		Gry Brn VF-F SAND, lit slt (possible highly decomposed ROCK)
										14'0"	
15		4	ss	3"	2"	15'3"	100/3"		wet	15'6"	partially decomposed / fractured BEDROCK AUGER REFUSAL
		1	c	60"	57"	20'6"	RQD = 60% Rec. = 95%	2.5 2.5 2 2.25 2.5	v dense		BEDROCK (Schist)
20										20'6"	
											E.O.B. 20'6"
25											
30											
35											
40											

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. HOLE NO. B-4

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50%

C = COARSE
M = MEDIUM
F = FINE

VILLAGE OF BREWSTER
MONTHLY PROGRESS REPORT

1. GENERAL INFORMATION		
Report No: 8 of 2018	Date: 8/15/2018	Contract No:
Facility Name: **VOB / PLANNING BOARD REVIEW AND CONSULTATION**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineer's Contract and Scope of Work including:

a. Projects reviewed this month (attach additional pages as needed)

- Brewster Honda - 2.5 hours
- Route 22 Brewster LLC (Getty Station) - 4.75 hours
- 530 North Main LLC – 3.5 hours

b. Status of Planning Board projects (attach additional pages as needed):

- B.O.S. Land Development – Met with NYCDEP on 7/27/18
- Brewster Honda – Punchlist Closeout
- Route 22 Brewster LLC (Old Getty Station) – Construction Ongoing
- 538 North Main Street – Construction Ongoing/Amendment being proposed

c. Activities scheduled (attach additional pages as needed):

- Continue plan review and meetings for B.O.S. Land Development
- Perform Close-Out Inspections on Brewster Honda Site, when needed.
- Perform site inspections on Route 22 Brewster LLC (Old Getty Station) Site, when needed.
- Perform site inspection at 538 North Main Street, when needed.

VILLAGE OF BREWSTER
MONTHLY PROGRESS REPORT

1. GENERAL INFORMATION		
Report No: 8 of 2018	Date: 8/15/2018	Contract No:
Facility Name: **VOB / EPA Stormwater Phase II Regulations**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineer's Contract and Scope of Work including :

a. Activities completed this month (attach additional pages as needed):

- Maintained monthly stormwater maintenance/good housekeeping reports quantifying the number of pounds of litter and the amount of sand cleaned up throughout the Village.

b. Status of activities in progress this month (attach additional pages as needed):

- Continue to assist Village with operation and maintenance issues discussed last month.
- Awaiting comments, if any, from the NYSDEC on the MS4 Annual Report.

c. Activities scheduled (attach additional pages as needed):

1. GENERAL INFORMATION		
Report No: 9 of 2018	Date: 9/19/2018	Contract No:
Facility Name: **VOB / Wastewater Treatment Plant and Collection System**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineers Contract and Scope of Work including:

a. Activities completed this month (attach additional pages as needed)

- The average daily flows at the plant in August were 137,000.
- Renewal of NYSDEC Chemical Bulk Storage Permit. Copy provided to the Village Clerk and original placed at the WWTP.

b. Status of activities in progress this month (attach additional pages as needed):

- Replace check valve assemblies at North Main Street Pump Station.
- Coolant flush and replacement of block heater at Carmel Avenue Pump Station.
- Replace backwash pump on Sand Filter #1. Pump Ordered.
- Replace CMF Feed Pump #1. Pump Ordered.
- Following up on delivery date for SCADA equipment.

c. Activities scheduled (attach additional pages as needed):

- Install SCADA equipment.
- Jetting of problem areas with Electric Snake.
- Clean out pump stations with Vactor Truck.

1. GENERAL INFORMATION		
Report No: 7 of 2018	Date: 9/19/2018	Contract No:
Facility Name: **VOB / Tonetta Brook Marvin Avenue Headwall**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineers Contract and Scope of Work including:

a. Activities completed this month (attach additional pages as needed)

b. Status of activities in progress this month (attach additional pages as needed):

- Awaiting NYSDEC on Stream Disturbance Application
- Awaiting Survey

c. Activities scheduled (attach additional pages as needed):

- Finalize design based on geotechnical findings and survey data

VILLAGE OF BREWSTER
MONTHLY PROGRESS REPORT

1. GENERAL INFORMATION		
Report No: 9 of 2018	Date: 9/19/2018	Contract No:
Facility Name: **VOB / PLANNING BOARD REVIEW AND CONSULTATION**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineer's Contract and Scope of Work including:

a. Projects reviewed this month (attach additional pages as needed)

- 530 North Main LLC – 3.75 hours
- 162 Main Street - 3.75 hours

b. Status of Planning Board projects (attach additional pages as needed):

- Route 22 Brewster LLC (Old Getty Station) – NYCDEP Stormwater Issue
- 538 North Main Street – Construction Ongoing/Amendment being proposed

c. Activities scheduled (attach additional pages as needed):

- Continue plan review and meetings for B.O.S. Land Development
- Perform site inspections on Route 22 Brewster LLC (Old Getty Station) Site, when needed.
- Perform site inspection at 538 North Main Street, when needed.
- 530 North Main Street Planning Review, Ongoing
- 162 Main Street Planning Review, Ongoing

VILLAGE OF BREWSTER
MONTHLY PROGRESS REPORT

1. GENERAL INFORMATION		
Report No: 9 of 2018	Date: 9/19/2018	Contract No:
Facility Name: **VOB / EPA Stormwater Phase II Regulations**		

2. ENGINEERS STATUS OF PROJECT (Narrative description of the Upgrade Project tasks (and subtasks) undertaken by the Engineer as set forth in the Engineer's Contract and Scope of Work including :

a. Activities completed this month (attach additional pages as needed):

- Maintained monthly stormwater maintenance/good housekeeping reports quantifying the number of pounds of litter and the amount of sand cleaned up throughout the Village.

b. Status of activities in progress this month (attach additional pages as needed):

- Continue to assist Village with operation and maintenance issues discussed last month.
- Awaiting comments, if any, from the NYSDEC on the MS4 Annual Report.

c. Activities scheduled (attach additional pages as needed):